

Title (en)  
Aprotinin variants with improved properties

Title (de)  
Aprotinin-Varianten mit verbesserten Eigenschaften

Title (fr)  
Variantes d'aprotinin ayant des propriétés améliorées

Publication  
**EP 0821007 A3 19981118 (DE)**

Application  
**EP 97111980 A 19970714**

Priority  
DE 19629982 A 19960725

Abstract (en)  
[origin: EP0821007A2] Aprotinin variants having a net charge of +3 to -3 and containing the amino acids Arg15 or Arg15-Ala17 in the binding region are new.

IPC 1-7  
**C07K 14/81; A61K 38/57**

IPC 8 full level  
**C12N 15/09** (2006.01); **A61K 38/04** (2006.01); **A61K 38/10** (2006.01); **A61K 38/55** (2006.01); **A61K 38/57** (2006.01); **A61P 7/04** (2006.01);  
**A61P 17/00** (2006.01); **A61P 29/00** (2006.01); **A61P 43/00** (2006.01); **C07K 14/00** (2006.01); **C07K 14/81** (2006.01); **C12N 15/15** (2006.01);  
**A61K 38/00** (2006.01)

CPC (source: EP KR US)  
**A61K 38/16** (2013.01 - KR); **A61P 7/04** (2017.12 - EP); **A61P 17/00** (2017.12 - EP); **A61P 29/00** (2017.12 - EP); **A61P 43/00** (2017.12 - EP);  
**C07K 14/81** (2013.01 - KR); **C07K 14/8114** (2013.01 - EP US); **C07K 14/8117** (2013.01 - EP US); **A61K 38/00** (2013.01 - EP US)

Citation (search report)  
• [DXY] EP 0419878 A1 19910403 - BAYER AG [DE]  
• [DXY] EP 0132732 A2 19850213 - BAYER AG [DE]  
• [DXY] EP 0339942 A2 19891102 - NOVO NORDISK AS [DK]  
• [DY] WO 9206111 A1 19920416 - NOVO NORDISK AS [DK]  
• [PY] US 5621074 A 19970415 - BJ RN SOREN E [DK], et al

Cited by  
DE102007056231A1; WO9856916A1; WO2008110301A1; WO2008077478A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**EP 0821007 A2 19980128; EP 0821007 A3 19981118; EP 0821007 B1 20040303**; AR 008783 A1 20000223; AT E260975 T1 20040315;  
AU 2870197 A 19980205; AU 5178701 A 20010906; AU 762041 B2 20030619; BG 101787 A 19981030; BR 9704068 A 19990105;  
CA 2207071 A1 19980125; CN 1172116 A 19980204; CO 4890857 A1 20000228; CZ 236797 A3 19980218; DE 19629982 A1 19980129;  
DE 59711356 D1 20040408; DZ 2276 A1 20021218; EE 9700177 A 19980216; ES 2217350 T3 20041101; HN 1997000094 A 19971226;  
HR P970384 A2 19980430; HU 9701290 D0 19970929; HU P9701290 A2 19990628; HU P9701290 A3 20000828; ID 17508 A 19980108;  
IL 121361 A0 19980104; JP H10101700 A 19980421; KR 980009283 A 19980430; MA 24279 A1 19980401; MX 9705605 A 19980830;  
NO 973426 D0 19970724; NO 973426 L 19980126; NZ 328402 A 19990329; PE 92298 A1 19990213; PL 321341 A1 19980202;  
RU 2197983 C2 20030210; SG 71714 A1 20000418; SK 101997 A3 19980304; SV 1997000068 A 19980709; TN SN97130 A1 20050315;  
TR 199700688 A2 19980221; TW 480271 B 20020321; UA 55380 C2 20030415; US 2002103334 A1 20020801; US 2003096752 A1 20030522;  
US 6482798 B2 20021119; YU 31697 A 19990728; ZA 976585 B 19980203

DOCDB simple family (application)  
**EP 97111980 A 19970714**; AR P970103329 A 19970723; AT 97111980 T 19970714; AU 2870197 A 19970717; AU 5178701 A 20010606;  
BG 10178797 A 19970722; BR 9704068 A 19970724; CA 2207071 A 19970722; CN 97115348 A 19970725; CO 97042648 A 19970725;  
CZ 236797 A 19970724; DE 19629982 A 19960725; DE 59711356 T 19970714; DZ 970126 A 19970723; EE 9700177 A 19970724;  
ES 97111980 T 19970714; HN 1997000094 A 19970620; HR P970384 A 19970715; HU P9701290 A 19970724; ID 972548 A 19970722;  
IL 12136197 A 19970722; JP 21019797 A 19970722; KR 19970034643 A 19970724; MA 24733 A 19970724; MX 9705605 A 19970724;  
NO 973426 A 19970724; NZ 32840297 A 19970723; PE 00066197 A 19970724; PL 32134197 A 19970725; RU 97112745 A 19970724;  
SG 1997002627 A 19970724; SK 101997 A 19970724; SV 1997000068 A 19970721; TN SN97130 A 19970724; TR 9700688 A 19970725;  
TW 86110514 A 19970724; UA 97073949 A 19970724; US 25296702 A 20020923; US 89632297 A 19970717; YU 31697 A 19970723;  
ZA 976585 A 19970724